Appl. No. Unassigned; Docket No. DE020252US Amdt. dated March 30, 2005 Preliminary Amendment

## Amendments to the Claims

- 1. (Currently Amended) An integrated circuit (1) having
- [[-]] a system base chip that has basic functions for a transmitting and/or receiving system for a vehicle data bus, namely at least a system voltage supply (3), a system reset (3) and a monitoring function (2),
- [[-]] an interface circuit (4, 5) that, in a self-contained fashion, runs at least parts of a data bus protocol, and in particular the LIN (Local Interconnect Network) protocol, that performs detection of the bit-rate of received data, and that is capable of passing on at least one received or transmitted byte,
- [[-]] a serial/parallel converter (2) that makes use in its conversion of the bit-rate detected by the interface circuit (4, 5).
- 2. (Currently Amended) An integrated circuit as claimed in claim 1, characterized in that there is provided in the integrated circuit (1) an R/C oscillator (6) that acts as a clock-signal source and as a timebase for the bit-rate detection.
- 3. (Currently Amended) An integrated circuit as claimed in claim 2, characterized in that the clock signal generated by the R/C oscillator (6) may also be provided to circuits outside the integrated circuit (1), and in particular to a microprocessor (7).
- 4. (Currently Amended) An integrated circuit as claimed in claim 1, characterized in that the interface circuit (4, 5) may also pass on complete messages.
- 5. (Currently Amended) An integrated circuit as claimed in claim 1, characterized in that the interface circuit (4, 5) performs buffer-storage of data received [[and/]] or to be transmitted.
- 6. (*Currently Amended*) An integrated circuit as claimed in claim 1, characterized in that the serial/parallel converter (5) converts serial data conforming to the SCI/UART (Serial Communication Interface/Universal Asynchronous Receiver Transmitter) interface standard into parallel data, or vice versa.